INFORMATION REPORT

COUNTRY

Germany (Russian Zone)

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SUBJEC?

1. Rail Stocks

2. Rails Mounted on Reinforced Concrete Ties

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SUPPLEMENT TO REPORT NO.

INITED STATES. WITHIN THE MEANING OF TITLE 16, BECTIONS 703 OF THE U.S. CODI. AS AIBENDED 113 TRANSMISSION OF REVEL F 173 CONTENTS TO OR BECEIFF BY AS: UNDUSTRONZED PRESON BITED BY LAST THE REPRODUCTION OF THIS FORM IS PROHIBITED.

THIS IS UNEVALUATED INFORMATION

indicated

- Stocks of old rails kept by the State Railroads are of limited usability Tost of these rails have only scrap value but as there is an acute shortage of new rails, the stock of old rails must be sorted again and again, at great cost, in order to find rail material which can be reconditioned for further use. Fost of these reclaimed rails, because of excessive wear and tear, can be used only on third class railroad tracks.
- b. Of the usable rails, 15,000 meters or 675 tons must be kept available for energency cases by order of the SUC so that only 120,000 mete s of rails or 4,950 tons remain available for current track maintenance operations. (See Tabulation I below). This means that only approximately 15,000 meters of rails will be at the disposal of each of the eight regio al railroad headquarters. As there are about 20 different types of rails, and as at least the most commonly used standard and closing length of each of these types must be kept on hand for the replacement of broken rails and for urgent repair work, only about 125 meters of each of the 20 types of rails would be actually available for current maintenance work in each of the eight railroad districts. This quantity is barely adequate. The rails listed in Tabulation II below are reconditioned for further use. In 1951, a total of 573,000 meters of rails was reconditioned. On 17 September 1951, the Directorate General ordered the regional railroad headquarters to have rails of Tabulation IV under five meters in length scrapped. (1) This order will affect about 40,000 meters of rails or about 1,400 tons. In addition, approximately 59,600 noters of rails, or 2,190 tons, listed in Tabulation II and IV will be turned byer to retionalized industrial plants to be used for building purposes. Stocks of old but still usable rails decreased from over 30,000 tens available on 31 September 1951 to 21,201 on hand at the end of November 1951. In the course of 1951, a total of 1,267,661 meters of rails, i.e., an estimated 50,700 tons, were installed. Compared with these requirements, the stocks of old rails which are still serviceable or capable of being reconditioned are very low.

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c. Tabulation of requirements for old but serviceable rails in 1952 as replacement of:

130 km of trackage: 200 km of a tegory 1-3 rails, 10,100 tons

495 km of rails: 195 km " 1-3 " , 19,800 "

Total: 39,200 tons.

This triulation shows that tracks, rails and switches cannot be replaced or maintained as scheduled on the basis of available stocks of old, usable rails. Real material required for new projects to be executed in 1952 were not included in the tabulation.

d. According to tabulations made by the individual regional railroad bandquarters at the end of October 1951, the Collowing stocks of used rails were available:

Tabulation). (Serviceable rails)

Narrow-gauge	Licht Type	Tedins Type	Weavy Type	Total
Nails	Rails	Lails	Rails	
(28 kg/moter)	(35 kg/meter)	(42 kg/seter)	(M9 kg/metor)	
2,202	he,205	7h,77h	37,117	162,295
(66)	(1,687)	(3,166)	(1,781)	(0,700)
		ion II. (Cails or econditioning)	pable of	
2,126	68,016	7½,032	69,685	21.3,860
(60)	(2,381)	(3,109)	(3,1 1 5)	(8,965)
	. Tabulat Suitabl	ion III, (Categor	y h Rails, Tracks)	
10,030	27,11/4	12,96L	13,095	63,233
(201)	(950)	(534)	(6l _! 2)	(2,407)
	Inbulat:	ion IV. (Usable f allroad Purposes)	or lion-	
$\label{eq:continuous} \begin{array}{ll} (A_1,A_2,A_3,A_4,A_4,A_4,A_4,A_4,A_4,A_4,A_4,A_4,A_4$				149,402

(5,232) 530,870 (23,304)

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Grand Total

Stocks of rails available at the end of Povember 1951:

Tabulation I. (Serviceable rails)

3,357	27,3 20	78,796	25, <i>(</i> 87	135,160
(94)	(956)	(3,359)	(1,259)	(5,618)

		SFORM T/		62-00457 R0 12000 180		25 ×1
		Tabulation I	I (Rails Coomble itioning)	of		Tagorida de la casa de
	5,987 (151)	69,776 (2,4ú2)	67,110 (2,(15)	62,165 (3,095)	205,138 (8,506)	
		Tabulation I Suitable on	II. (Category h I ly for linor Trac	oils, ks)		No.
	17,085 (478)	15,113 (665)	13,201 (\$63)	10,772 (538)	60,371 (2,048)	
	Usable for no	n-railread purp	eses		113,691 (5,029)	
25X1	Grand Total Note: Figure	s in carenthese	s net as his that no	chi of rails in t	514,660 (21,201)	
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A Method of Mounting of Hails on deinforced Concrete Ties.

The nost invortant problem for the utilination of reinforced concrete ties is the mounting of rails. Almost all the reinforced concrete ties previously tested were designed so that rails were secured to them either directly or via a tieplate ty means of screwn inserted into dovels, which were embedded in concrete. However, both ratiods proved to be unsatisfactory.

For this reason, a new method designed to guarantee a solid and durable connection between ties and rails has been developed. Tased on experience with type R ribbed sleepers, which has proved reliable, a new ribbed the plate, which is embedded in the concrete of the tie, has been designed. This device makes it possible to secure the rail to the tie plate ty means of standard clips and jaw screws just as with the type? Permanent way.

There are ribbed reinforcements on the underside of the heads of the tie plate and they are designed to take up the transverse pressure and torsion and to transmit then to the four engle braces in the engles between the bottom surface of the plate and the ribbed reinforcements of the ties. The braces grip the from mountings of the tie and are lept in place by two rods. If the concrete of the ties is reinforced by beed from typical of connections used in ferror-c native constructions and meets all equirements. I speed between the ribs of the tie plate increases its resistance against rail creeping and prevents the direct taking up of pressure by the concrete.

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